

Received & Inspected

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From: Nate Thompson- President

FCC Mail Room

BT Enterprises, Inc
111 W. Walnut St.
Teutopolis, IL 62467

To: Federal Communications Commission Staff (FCC)**Subject:** Expression of Interest – Rural Trials Docket No. 10-90

Background:

BT Enterprises Inc. was started in 2012 by the owners of a fiber optic installation company with the sole purpose of upgrading the communication network of the small town we live in. The town itself has lost opportunities for businesses due to the lack of a reliable high speed network. The business plan for the town is already in place and construction is scheduled to start in the fall. We are looking for funds to build to the rural customers who have no options for wireline CATV and are very limited on internet access.

Geographic Territory:

BT Enterprises is proposing to build a FTTH network to serve our local rural community and businesses in the IL0499501001, IL0499501002, IL0499501003, IL0359726004, and IL1739595004 census tracts. The population in these tracts totals 6,273 people with little to no options for high speed internet or CATV. BT Enterprises, Inc is currently working with Finley Engineering on designing the OSP build along with a new Central Office. The customer build out for the rural according to the FCC website in our area is in the "extreme high cost" of over \$197/customer.

List of Anchor Institutions:

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Teutopolis Unit 50 High School, Middle School and Grade School, Sigel St. Michael grade school, Lakeland College Kluthe Center, Tree House Early Learning Center, Teutopolis Village Hall, Teutopolis Fire dept. Sigel Fire protection district, Mid Illinois Medical Clinic

Proposed Technology:

We are building a fiber to the home network capable of delivering voice, video and data services to every house in the proposed census tracts. We will be utilizing the new state owned infrastructure (ICN) for buying wholesale internet and video services as well as leasing switch space from a local phone company for dial tone. We will be using the Calix E7 platform with an entirely underground network.

State and/or Local Support:

The local town board is extremely supportive of a communication upgrade. They are currently looking into allowing to TIF funds to help with building costs. No other financial support has been applied for or inquired about.

Existing Providers:

Frontier Communications is the local ILEC and Mediacom is the local cable company. Frontier's network is all copper based for the village and rural and is completely insufficient for the residential and business customers. The village has lost bids for manufacturing and technology based businesses due to the lack of bandwidth available. Mediacom has a better internet product but service is down often followed by a lack of support.

Project Timeline:

The central office is scheduled to begin construction this year. OSP engineering plans for the village are underway to serve business and residential customers immediately. Depending on funding available, engineering the rural expansion phase can begin immediately with placement activities estimated in the 12 month timeframe.

Scalability:

This network will be deployed as a GPON network with the capability of being upgraded to an Active Ethernet deployment depending on the needs of the customers.

Total Utility Investment:

The central office building, and electronics have already been figured into a business plan for the village therefore we would only be looking for funds to assist with the rural OSP build. The rural build out will depend heavily on outside funding assistance or a hugely successful roll out of services to the 900 homes and businesses in the village (which will take years of trying to recoup the initial startup costs). We estimate the OSP Construction at \$25,000/mile (labor and material) for 125 miles of underground plant is: \$3,125,000

One Time Capital Infrastructure Investment Needed:

\$3,125,000.00

Total Project Cost:

\$3,125,000.00